

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P776195

Luminaire Tested: HCDJBS1525CSD-HCD8TRMW-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TRMW-2500lm-2700K  
Description: 8 INCH ROUND MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

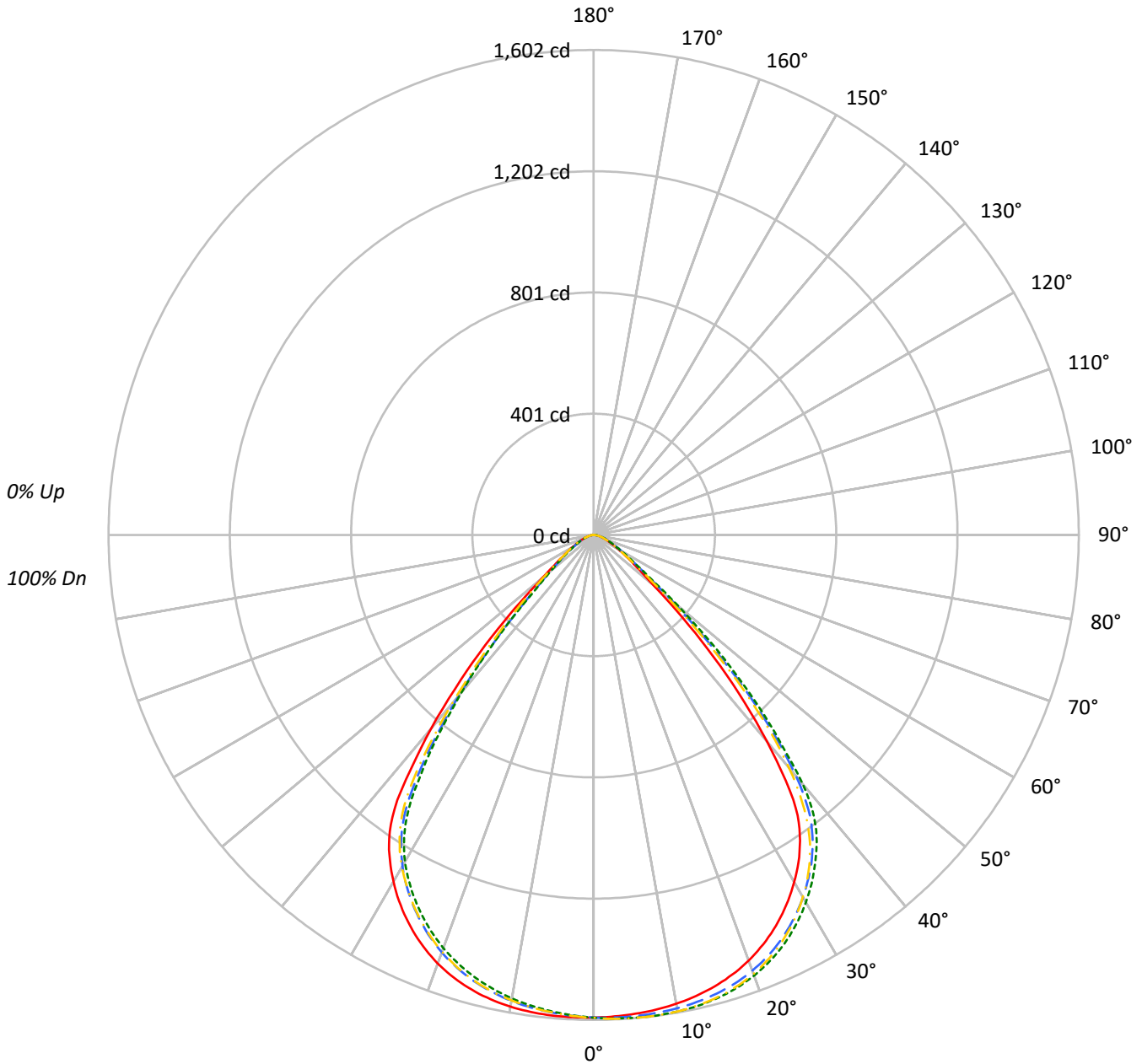
Lumens per Lamp: N/A  
Luminaire Lumens: 2582.9 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91	91		
	2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82	82	82	82	82	82		
	3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74	74	74	74	74	74		
	4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66	66	66	66	66	66		
	5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60	60	60		
	6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55	55	55	55	55	55		
	7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50	50	50	50	50	50		
	8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46	46	46		
	9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42	42	42	42	42	42		
	10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39	39	39	39	39	39		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	48684	48684	48684	48684
5°	48661	49063	48833	48425
10°	48753	49556	49059	48188
15°	48802	50050	49162	47828
20°	48614	50336	48929	47175
25°	47983	50186	48155	45952
30°	46697	49404	46619	43929
35°	44162	47762	43540	38392
40°	35459	42832	33286	26966
45°	23013	30185	20586	14995
50°	12192	17151	10606	8673
55°	7952	9113	6765	6057
60°	5709	6344	4897	4555
65°	4428	4898	3814	3619
70°	3571	4044	3071	2919
75°	2937	3456	2454	2312
80°	2338	3024	1828	1705
85°	1681	2802	1016	841

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 30811 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.4	5.9
10°-20°	437.1	16.9
20°-30°	655.6	25.4
30°-40°	709.6	27.5
40°-50°	404.2	15.6
50°-60°	134.2	5.2
60°-70°	59.2	2.3
70°-80°	25.8	1.0
80°-90°	5.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1244.1	48.2
0°-40°	1953.8	75.6
0°-60°	2492.1	96.5
0°-90°	2582.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1595	1595	1595	1595	1595	
5°	1588	1601	1593	1580	1588	151
15°	1544	1584	1555	1513	1544	436
25°	1424	1490	1430	1364	1424	655
35°	1185	1282	1168	1030	1185	721
45°	533	699	477	347	533	415
55°	149	171	127	114	149	139
65°	61	68	53	50	61	62
75°	25	29	21	20	25	27
85°	5	8	3	2	5	6
90°	0	1	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6
0.5°	1593.9	1594.4	1594.4	1594.6	1595.6	1596.3	1597.0	1596.1	1594.6	1593.9	1593.2
1°	1593.6	1594.4	1594.6	1595.1	1596.5	1597.3	1597.8	1596.5	1594.8	1593.6	1592.4
1.5°	1593.2	1594.1	1595.1	1595.8	1597.3	1598.2	1598.5	1597.0	1594.8	1593.4	1591.7
2°	1592.7	1594.1	1595.3	1596.5	1598.0	1599.2	1599.2	1597.5	1594.8	1592.9	1590.7
2.5°	1592.2	1593.9	1595.6	1597.0	1598.7	1599.7	1599.7	1597.8	1594.8	1592.4	1589.8
3°	1591.5	1593.6	1595.6	1597.5	1599.4	1600.7	1600.2	1598.0	1594.8	1591.7	1588.8
3.5°	1590.5	1593.4	1595.6	1598.0	1599.9	1601.1	1600.9	1598.0	1594.4	1591.2	1587.6
4°	1589.8	1592.9	1595.6	1598.2	1600.4	1601.6	1601.1	1598.2	1594.1	1590.5	1586.4
4.5°	1589.0	1592.2	1595.3	1598.5	1600.7	1602.1	1601.4	1598.2	1593.9	1589.5	1585.2
5°	1587.8	1591.5	1595.1	1598.5	1600.9	1602.4	1601.6	1598.0	1593.4	1588.6	1583.7
5.5°	1586.9	1591.0	1594.8	1598.7	1600.9	1602.6	1601.6	1597.8	1592.9	1587.6	1582.3
6°	1585.6	1590.0	1594.4	1598.7	1601.1	1602.8	1601.9	1597.5	1592.2	1586.4	1580.6
6.5°	1584.4	1589.3	1593.9	1598.5	1601.1	1602.8	1601.9	1597.0	1591.5	1585.2	1578.9
7°	1583.2	1588.1	1593.4	1598.2	1601.1	1602.8	1601.6	1596.5	1590.5	1583.7	1576.9
7.5°	1581.8	1587.1	1592.7	1598.0	1600.9	1602.8	1601.4	1596.1	1589.5	1582.3	1575.0
8°	1580.1	1585.9	1591.9	1597.5	1600.7	1602.6	1600.9	1595.3	1588.3	1580.8	1572.8
8.5°	1578.4	1584.7	1591.0	1597.0	1600.2	1602.4	1600.4	1594.4	1587.1	1578.9	1570.6
9°	1576.7	1583.2	1590.0	1596.3	1599.7	1602.1	1599.9	1593.4	1585.6	1577.2	1568.2
9.5°	1574.7	1581.5	1589.0	1595.8	1599.2	1601.4	1599.2	1592.2	1584.2	1575.0	1565.5
10°	1572.6	1579.8	1587.6	1594.8	1598.5	1600.9	1598.2	1591.0	1582.5	1572.8	1562.6
10.5°	1570.4	1578.1	1586.4	1594.1	1597.5	1599.9	1597.3	1589.5	1580.6	1570.4	1560.0
11°	1568.2	1576.2	1584.9	1592.9	1596.5	1599.0	1596.1	1588.1	1578.4	1567.7	1557.1
11.5°	1565.5	1574.0	1583.5	1591.9	1595.6	1598.0	1594.8	1586.4	1576.2	1565.3	1553.9
12°	1562.9	1571.8	1581.8	1590.7	1594.4	1596.8	1593.4	1584.4	1573.8	1562.4	1550.3
12.5°	1560.2	1569.7	1579.8	1589.3	1592.9	1595.6	1591.7	1582.3	1571.1	1559.3	1546.9
13°	1557.1	1567.0	1577.9	1587.6	1591.5	1594.1	1590.0	1579.8	1568.5	1555.9	1543.0
13.5°	1554.2	1564.3	1575.7	1586.1	1589.5	1592.4	1587.8	1577.4	1565.5	1552.5	1539.2
14°	1551.0	1561.4	1573.5	1584.2	1587.8	1590.5	1585.6	1574.7	1562.4	1548.8	1534.8
14.5°	1547.6	1558.5	1571.1	1582.3	1585.6	1588.6	1583.5	1571.8	1559.0	1545.0	1530.7
15°	1544.0	1555.6	1568.7	1580.1	1583.5	1586.4	1581.0	1568.7	1555.4	1540.6	1526.1
15.5°	1540.1	1552.2	1565.8	1577.7	1580.8	1584.0	1578.4	1565.5	1551.5	1536.2	1521.2
16°	1536.0	1548.8	1562.9	1575.0	1578.4	1581.3	1575.5	1561.9	1547.4	1531.6	1516.1
16.5°	1531.9	1545.2	1559.7	1572.3	1575.5	1578.6	1572.1	1558.0	1543.0	1526.8	1511.1
17°	1527.3	1541.3	1556.6	1569.4	1572.3	1575.7	1568.7	1553.9	1538.7	1521.7	1505.2
17.5°	1522.9	1537.2	1553.0	1566.3	1569.2	1572.6	1565.1	1549.6	1533.8	1516.6	1499.7
18°	1518.1	1533.1	1549.3	1562.6	1565.8	1569.2	1561.2	1545.0	1528.7	1510.8	1493.6
18.5°	1513.0	1528.5	1545.2	1559.3	1561.9	1565.3	1556.8	1540.4	1523.4	1505.0	1487.6
19°	1507.4	1523.9	1541.1	1555.4	1557.8	1561.2	1552.5	1535.3	1518.1	1499.0	1481.0
19.5°	1501.9	1519.1	1536.7	1551.3	1553.7	1557.3	1548.1	1529.9	1512.0	1492.7	1474.0
20°	1496.3	1513.7	1531.6	1546.9	1549.3	1552.7	1543.3	1524.1	1506.0	1485.9	1467.0
20.5°	1490.2	1508.4	1527.0	1542.3	1544.5	1547.9	1537.9	1518.3	1499.7	1479.1	1460.0
21°	1483.9	1502.8	1522.0	1537.7	1539.6	1542.8	1532.4	1512.0	1492.9	1471.8	1452.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1463.6	1484.2	1504.8	1521.5	1522.9	1526.3	1514.2	1491.9	1471.3	1448.8	1427.8
23°	1456.3	1477.6	1498.7	1515.7	1517.1	1520.0	1507.7	1484.4	1463.6	1440.4	1418.8
23.5°	1448.6	1470.9	1492.2	1509.6	1510.8	1514.0	1500.4	1476.9	1455.1	1431.6	1409.8
24°	1440.8	1463.6	1485.2	1503.1	1504.0	1507.2	1493.4	1468.9	1446.9	1422.7	1400.6
24.5°	1432.6	1456.3	1478.6	1496.3	1497.0	1500.2	1485.9	1460.7	1438.4	1413.7	1391.0
25°	1424.4	1448.3	1471.1	1489.3	1489.8	1492.9	1478.1	1452.2	1429.5	1404.0	1381.0
25.5°	1415.7	1440.4	1463.6	1482.0	1482.2	1485.4	1469.9	1443.3	1420.0	1393.9	1370.9
26°	1406.4	1432.1	1455.4	1474.5	1474.7	1477.6	1461.4	1434.1	1410.1	1383.7	1360.2
26.5°	1397.2	1423.4	1447.6	1466.5	1466.3	1469.4	1452.5	1424.4	1400.4	1373.8	1349.8
27°	1387.8	1414.7	1439.1	1458.5	1458.0	1460.7	1443.5	1414.7	1390.2	1362.9	1338.4
27.5°	1378.1	1405.2	1430.2	1450.0	1449.3	1452.0	1434.1	1404.5	1379.8	1352.0	1327.0
28°	1368.2	1396.0	1421.5	1441.3	1440.4	1442.8	1424.4	1394.3	1368.9	1341.1	1315.2
28.5°	1357.5	1386.1	1411.8	1432.1	1430.9	1433.6	1414.2	1383.4	1357.8	1329.2	1303.3
29°	1346.9	1376.2	1402.3	1422.9	1421.5	1423.6	1403.5	1372.3	1346.4	1317.3	1290.5
29.5°	1335.7	1365.5	1392.2	1413.5	1411.5	1413.5	1392.9	1360.7	1334.5	1305.0	1276.9
30°	1324.6	1355.1	1382.2	1403.3	1401.4	1403.1	1381.7	1349.1	1322.4	1292.6	1262.9
30.5°	1312.5	1344.2	1371.3	1393.4	1390.7	1392.4	1370.6	1337.2	1309.6	1279.1	1248.1
31°	1300.6	1332.8	1360.7	1382.7	1379.8	1381.5	1358.7	1324.4	1297.2	1265.3	1233.1
31.5°	1288.5	1320.5	1349.5	1371.8	1368.4	1369.9	1346.6	1311.0	1283.4	1251.2	1217.1
32°	1275.9	1309.1	1337.9	1360.4	1357.8	1358.5	1333.8	1297.2	1269.6	1236.7	1200.4
32.5°	1262.6	1296.5	1326.1	1349.3	1345.7	1346.4	1320.2	1282.9	1255.3	1220.7	1182.5
33°	1248.8	1283.7	1314.2	1337.7	1333.6	1333.8	1306.2	1268.4	1240.6	1203.8	1163.1
33.5°	1233.8	1270.6	1301.8	1325.6	1321.0	1321.0	1292.2	1252.7	1224.3	1185.4	1141.5
34°	1218.8	1256.6	1288.8	1313.5	1308.4	1307.4	1276.7	1236.5	1207.4	1165.7	1117.3
34.5°	1202.3	1241.3	1274.7	1300.6	1295.1	1293.1	1261.4	1219.3	1189.0	1141.5	1090.7
35°	1184.9	1225.8	1260.7	1287.6	1281.5	1278.6	1244.9	1200.9	1168.2	1116.1	1061.4
35.5°	1165.3	1208.8	1245.2	1273.7	1267.5	1263.6	1227.7	1179.8	1144.2	1088.5	1029.2
36°	1145.2	1190.9	1229.4	1259.5	1253.2	1248.1	1208.6	1156.5	1118.5	1057.0	995.0
36.5°	1122.2	1172.0	1212.2	1244.9	1237.4	1230.9	1188.3	1132.1	1089.2	1022.9	959.9
37°	1095.5	1150.0	1194.3	1228.9	1221.0	1212.2	1166.5	1106.7	1055.6	987.0	924.1
37.5°	1064.0	1125.5	1174.5	1211.3	1202.1	1191.7	1142.5	1077.8	1018.3	949.5	886.3
38°	1030.1	1097.9	1151.7	1191.7	1181.7	1170.1	1117.3	1048.5	979.8	910.3	847.8
38.5°	994.8	1066.7	1126.5	1170.1	1159.0	1146.1	1091.6	1016.8	941.0	870.6	808.6
39°	959.4	1032.6	1099.9	1145.9	1134.5	1121.2	1063.6	984.9	905.2	830.8	769.6
39.5°	924.6	998.2	1070.8	1120.7	1106.4	1092.6	1034.3	949.3	870.3	792.3	730.6
40°	889.7	964.8	1039.6	1092.1	1074.7	1063.8	1002.3	913.9	835.2	754.8	691.4
40.5°	853.1	932.5	1005.7	1061.4	1036.7	1031.8	970.3	876.1	798.6	717.0	652.9
41°	816.8	898.6	970.1	1028.2	997.7	1000.1	937.1	838.6	760.6	678.3	614.8
41.5°	780.2	864.0	933.8	992.8	957.7	965.7	903.5	800.8	723.1	639.8	578.3
42°	743.7	827.7	897.2	954.8	920.2	929.4	868.6	764.7	685.8	603.9	541.0
42.5°	707.3	789.4	859.7	915.4	885.6	891.6	831.1	726.7	649.5	568.1	505.1
43°	672.2	751.4	820.7	874.4	850.5	854.3	791.9	689.4	614.6	534.2	472.0
43.5°	637.4	713.9	782.7	834.7	813.6	816.3	753.1	651.9	580.5	501.5	439.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	533.0	603.7	665.7	713.6	699.1	704.9	634.5	543.2	476.8	409.7	354.3
45.5°	499.6	567.4	626.2	676.1	662.1	668.1	594.3	507.8	444.1	380.4	329.1
46°	466.6	531.3	586.5	637.1	626.5	630.8	558.4	473.2	412.4	353.5	306.8
46.5°	434.9	495.9	549.0	601.0	591.3	593.5	520.4	439.3	382.6	326.4	285.7
47°	403.9	461.6	511.7	565.2	556.2	557.0	485.5	407.3	354.8	302.5	266.6
47.5°	372.9	427.6	478.3	531.1	520.6	520.6	451.9	376.1	327.4	280.4	248.9
48°	345.6	396.2	445.3	497.9	485.5	485.8	420.1	346.8	301.7	260.3	233.2
48.5°	319.4	366.1	413.8	466.6	451.9	451.6	387.9	318.7	277.8	241.4	221.1
49°	295.7	337.8	385.0	434.9	419.9	417.7	358.6	293.3	256.0	227.9	208.7
49.5°	274.1	313.1	357.9	405.1	389.9	385.5	331.3	270.2	236.6	214.3	196.4
50°	256.7	289.6	333.0	375.8	361.1	354.0	305.8	249.7	223.3	200.7	184.0
50.5°	240.9	269.3	309.0	347.7	333.2	325.7	280.9	231.5	210.0	187.2	171.7
51°	226.7	251.1	287.4	321.8	305.4	298.8	259.4	217.7	196.6	173.9	163.9
51.5°	213.6	235.9	267.6	297.9	281.6	275.8	239.5	203.7	183.3	165.6	156.7
52°	202.2	221.6	249.4	275.6	258.9	254.3	225.4	189.6	170.2	158.4	149.7
52.5°	191.3	209.2	233.4	255.5	238.5	235.1	211.4	175.8	162.5	151.3	142.4
53°	180.9	197.6	218.2	237.6	225.0	220.6	197.6	166.8	155.2	144.1	135.6
53.5°	171.4	186.9	204.6	221.3	211.6	206.3	183.6	159.3	148.0	137.1	129.1
54°	164.2	176.8	191.8	206.1	198.1	191.8	169.8	152.1	140.9	130.3	123.0
54.5°	156.9	168.5	180.6	193.0	184.5	177.5	161.8	144.6	133.9	124.0	117.2
55°	149.4	160.8	171.0	180.9	171.2	168.5	154.3	137.3	127.1	117.9	111.6
55.5°	142.4	153.5	163.2	171.0	163.0	161.0	146.7	130.5	120.8	112.4	106.8
56°	135.6	146.3	155.5	163.0	155.7	153.3	139.2	123.7	115.3	107.3	101.9
56.5°	129.1	139.2	148.4	155.5	148.0	145.8	132.2	117.7	109.9	102.4	97.6
57°	122.8	132.5	140.9	148.0	140.5	138.5	125.7	112.1	104.6	98.1	93.5
57.5°	117.2	125.9	134.2	140.7	133.4	131.2	119.4	107.0	100.0	94.0	89.6
58°	111.6	119.9	127.4	133.4	126.6	124.7	113.6	101.9	95.7	89.8	86.0
58.5°	106.8	114.3	121.3	126.9	120.4	118.7	108.2	97.3	91.5	86.2	82.3
59°	101.9	109.2	115.5	120.6	114.5	112.8	103.2	93.0	87.7	82.6	78.9
59.5°	97.8	104.4	110.2	114.8	109.0	107.5	98.3	89.1	83.8	79.2	75.8
60°	93.5	99.8	105.1	109.5	103.9	102.4	94.0	85.5	80.2	76.0	72.9
60.5°	89.4	95.4	100.5	104.4	99.3	97.8	90.1	81.8	77.0	72.9	70.0
61°	86.0	91.5	96.1	99.5	94.9	93.5	86.2	78.5	73.6	70.0	67.3
61.5°	82.6	87.4	92.0	95.2	90.8	89.6	82.6	75.3	70.5	67.3	64.7
62°	79.2	84.3	88.1	91.1	86.9	85.5	79.2	72.2	67.6	64.4	62.2
62.5°	75.8	80.9	85.0	86.9	83.3	82.1	75.8	69.3	64.9	62.0	59.8
63°	72.4	77.7	81.6	83.8	79.7	78.5	72.9	66.6	62.2	59.6	57.4
63.5°	69.5	74.3	78.5	80.4	76.5	75.3	70.0	63.9	59.8	57.1	55.2
64°	66.6	71.2	75.1	77.2	73.4	72.4	67.1	61.3	57.1	54.7	53.0
64.5°	63.9	68.3	71.7	74.1	70.5	69.5	64.7	58.8	55.0	52.8	50.9
65°	61.3	65.4	69.0	71.0	67.8	66.8	62.0	56.4	52.8	50.4	48.9
65.5°	58.6	63.0	66.1	68.3	64.9	64.2	59.6	54.2	50.6	48.4	47.0
66°	56.4	60.3	63.7	65.6	62.5	61.8	57.1	52.1	48.4	46.5	45.0





TEST NUMBER: P776195

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	49.6	53.3	56.4	58.1	55.5	54.7	50.9	46.0	42.6	40.9	39.7
68°	47.5	51.1	54.2	55.9	53.3	52.5	48.9	44.1	40.9	39.2	38.0
68.5°	45.5	48.9	52.1	53.8	51.1	50.4	46.7	42.1	39.2	37.5	36.6
69°	43.6	47.0	49.9	51.6	49.2	48.4	45.0	40.4	37.5	35.8	34.9
69.5°	41.9	45.0	47.9	49.4	47.2	46.5	43.1	38.7	35.8	34.4	33.4
70°	40.0	43.1	46.0	47.5	45.3	44.6	41.4	37.1	34.4	32.7	32.0
70.5°	38.3	41.4	44.1	45.5	43.3	42.9	39.7	35.4	32.7	31.2	30.5
71°	36.6	39.5	42.4	43.8	41.7	41.2	38.0	33.9	31.2	29.8	29.1
71.5°	34.9	37.8	40.7	41.9	40.0	39.5	36.6	32.4	29.8	28.3	27.6
72°	33.4	36.3	39.0	40.2	38.3	37.8	34.9	31.0	28.3	26.9	26.4
72.5°	32.0	34.6	37.3	38.5	36.8	36.1	33.4	29.5	27.1	25.7	24.9
73°	30.5	33.2	35.6	37.1	35.1	34.6	32.0	28.1	25.7	24.5	23.7
73.5°	29.1	31.5	34.1	35.4	33.7	33.2	30.5	26.9	24.5	23.0	22.5
74°	27.6	30.0	32.7	33.9	32.2	31.7	29.1	25.4	23.2	21.8	21.3
74.5°	26.2	28.6	31.0	32.4	30.8	30.3	27.8	24.2	22.0	20.6	20.3
75°	24.9	27.4	29.8	31.0	29.3	28.8	26.4	23.0	20.8	19.6	19.1
75.5°	23.5	25.9	28.3	29.5	28.1	27.6	25.2	21.8	19.6	18.4	17.9
76°	22.3	24.5	26.9	28.3	26.6	26.4	24.0	20.6	18.4	17.2	17.0
76.5°	21.1	23.2	25.7	26.9	25.4	24.9	22.8	19.4	17.4	16.2	15.7
77°	19.9	22.0	24.2	25.7	24.2	23.7	21.6	18.4	16.2	15.0	14.8
77.5°	18.6	20.8	23.0	24.2	23.0	22.5	20.3	17.2	15.3	14.0	13.6
78°	17.7	19.6	21.8	23.0	21.8	21.3	19.1	16.0	14.0	13.1	12.6
78.5°	16.5	18.4	20.6	22.0	20.6	20.3	18.2	15.0	13.1	12.1	11.6
79°	15.5	17.4	19.6	20.8	19.4	19.1	17.0	14.0	12.1	11.1	10.9
79.5°	14.3	16.2	18.4	19.6	18.4	18.2	15.7	13.1	11.4	10.2	9.9
80°	13.3	15.3	17.2	18.4	17.2	17.0	14.8	12.1	10.4	9.2	9.0
80.5°	12.4	14.0	16.2	17.4	16.2	15.7	13.8	11.1	9.4	8.5	8.2
81°	11.4	13.1	15.0	16.2	15.3	15.0	12.8	10.2	8.7	7.5	7.3
81.5°	10.4	12.1	14.0	15.3	14.0	13.8	11.9	9.2	7.7	6.8	6.5
82°	9.7	11.1	13.1	14.3	13.1	12.8	11.1	8.5	7.0	6.1	5.8
82.5°	8.7	10.2	12.1	13.3	12.4	12.1	10.2	7.5	6.3	5.3	5.1
83°	8.0	9.4	11.1	12.4	11.4	11.1	9.2	6.8	5.6	4.6	4.4
83.5°	7.0	8.5	10.4	11.4	10.4	10.2	8.5	6.1	4.8	3.9	3.9
84°	6.3	7.7	9.4	10.7	9.7	9.4	7.7	5.3	4.1	3.1	3.1
84.5°	5.6	6.8	8.7	9.7	8.7	8.5	7.0	4.6	3.4	2.4	2.7
85°	4.8	6.1	7.7	9.0	8.0	7.7	6.1	3.9	2.9	1.9	1.9
85.5°	4.1	5.3	7.0	8.2	7.3	7.0	5.3	3.1	2.2	1.5	1.5
86°	3.4	4.6	6.1	7.3	6.5	6.3	4.8	2.7	1.7	1.2	1.0
86.5°	2.7	3.9	5.3	6.5	5.8	5.6	4.1	2.2	1.2	0.7	0.5
87°	2.2	3.1	4.8	5.8	5.1	4.8	3.4	1.7	1.0	0.5	0.0
87.5°	1.7	2.4	4.1	5.1	4.4	4.1	2.9	1.2	0.5	0.2	0.0
88°	1.2	1.9	3.4	4.4	3.6	3.6	2.4	1.0	0.2	0.0	0.0
88.5°	0.7	1.5	2.9	3.6	3.1	2.9	1.7	0.5	0.0	0.0	0.0



TEST NUMBER: P776195  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	1.2	1.9	1.2	1.2	0.2	0.0	0.0	0.0	0.0



TEST NUMBER: P776195

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6
0.5°	1592.7	1593.9	1594.1	1595.1	1594.8	1593.9
1°	1591.7	1592.7	1592.9	1594.1	1594.1	1593.6
1.5°	1590.5	1591.2	1591.7	1592.9	1593.2	1593.2
2°	1589.3	1590.0	1590.2	1591.7	1592.4	1592.7
2.5°	1587.8	1588.6	1588.8	1590.5	1591.5	1592.2
3°	1586.6	1587.1	1587.3	1589.0	1590.2	1591.5
3.5°	1584.9	1585.4	1585.6	1587.8	1589.3	1590.5
4°	1583.5	1583.7	1584.2	1586.4	1588.3	1589.8
4.5°	1581.8	1582.0	1582.3	1584.9	1587.1	1589.0
5°	1579.8	1580.1	1580.3	1583.2	1585.9	1587.8
5.5°	1577.9	1578.1	1578.4	1581.8	1584.4	1586.9
6°	1575.7	1575.7	1576.2	1579.8	1583.0	1585.6
6.5°	1573.5	1573.8	1574.0	1577.9	1581.3	1584.4
7°	1571.1	1571.4	1571.8	1576.0	1579.8	1583.2
7.5°	1568.7	1568.9	1569.2	1574.0	1578.1	1581.8
8°	1566.3	1566.0	1566.8	1571.6	1576.2	1580.1
8.5°	1563.4	1563.4	1564.1	1569.4	1574.3	1578.4
9°	1560.7	1560.5	1561.2	1567.0	1572.3	1576.7
9.5°	1557.6	1557.8	1558.0	1564.1	1570.1	1574.7
10°	1554.4	1554.4	1555.1	1561.4	1567.7	1572.6
10.5°	1551.3	1551.0	1551.7	1558.5	1565.3	1570.4
11°	1547.6	1547.6	1548.4	1555.6	1562.6	1568.2
11.5°	1544.0	1544.0	1544.5	1552.5	1560.0	1565.5
12°	1540.1	1540.1	1540.8	1549.1	1557.1	1562.9
12.5°	1536.2	1536.0	1536.7	1545.4	1553.7	1560.2
13°	1532.1	1531.9	1532.4	1541.6	1550.5	1557.1
13.5°	1527.8	1527.5	1528.3	1537.7	1547.1	1554.2
14°	1523.2	1522.9	1523.7	1533.6	1543.5	1551.0
14.5°	1518.3	1518.3	1518.8	1529.2	1539.6	1547.6
15°	1513.5	1513.2	1514.0	1524.6	1535.5	1544.0
15.5°	1508.4	1507.9	1508.6	1519.5	1531.4	1540.1
16°	1502.8	1502.8	1503.1	1514.5	1526.8	1536.0
16.5°	1497.3	1497.3	1497.5	1509.1	1522.2	1531.9
17°	1491.2	1491.4	1491.7	1503.6	1517.1	1527.3
17.5°	1485.4	1485.4	1485.4	1498.0	1512.0	1522.9
18°	1478.9	1479.3	1479.1	1491.7	1506.5	1518.1
18.5°	1472.3	1472.6	1472.3	1485.4	1500.9	1513.0
19°	1465.5	1465.8	1465.5	1478.6	1494.8	1507.4
19.5°	1458.3	1459.2	1458.5	1472.1	1488.5	1501.9
20°	1451.0	1452.0	1450.8	1464.6	1482.0	1496.3
20.5°	1443.5	1444.2	1443.3	1457.5	1475.5	1490.2
21°	1435.5	1436.5	1435.3	1449.8	1468.7	1483.9

TEST NUMBER: P776195

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1410.3	1411.3	1409.8	1425.1	1446.2	1463.6
23°	1401.1	1402.6	1400.6	1416.6	1437.9	1456.3
23.5°	1391.7	1393.4	1391.7	1407.4	1429.7	1448.6
24°	1382.0	1383.9	1382.0	1398.2	1421.0	1440.8
24.5°	1372.3	1374.2	1372.1	1389.0	1412.3	1432.6
25°	1361.9	1364.1	1361.9	1378.8	1403.1	1424.4
25.5°	1351.5	1353.9	1351.5	1368.9	1393.9	1415.7
26°	1340.3	1343.2	1341.1	1358.5	1384.2	1406.4
26.5°	1329.7	1332.6	1329.9	1348.1	1374.5	1397.2
27°	1318.1	1321.2	1318.5	1337.2	1364.1	1387.8
27.5°	1306.4	1309.6	1307.2	1326.1	1353.7	1378.1
28°	1294.3	1297.7	1295.1	1314.4	1343.0	1368.2
28.5°	1281.5	1285.9	1283.2	1302.8	1332.1	1357.5
29°	1267.5	1273.0	1270.6	1290.9	1320.7	1346.9
29.5°	1252.9	1259.9	1257.5	1278.8	1308.9	1335.7
30°	1238.2	1246.1	1243.5	1266.5	1297.2	1324.6
30.5°	1222.4	1231.1	1228.7	1253.4	1285.1	1312.5
31°	1205.9	1215.6	1212.7	1239.4	1272.8	1300.6
31.5°	1188.5	1198.7	1196.7	1224.8	1259.9	1288.5
32°	1169.6	1180.8	1179.8	1209.1	1245.9	1275.9
32.5°	1149.8	1161.6	1162.1	1192.9	1231.6	1262.6
33°	1128.2	1140.8	1143.2	1175.4	1216.4	1248.8
33.5°	1103.0	1118.8	1122.2	1157.3	1200.4	1233.8
34°	1074.5	1093.1	1098.7	1137.4	1183.7	1218.8
34.5°	1042.5	1063.6	1069.9	1115.4	1165.5	1202.3
35°	1009.3	1030.1	1036.9	1090.0	1146.4	1184.9
35.5°	974.9	995.5	1001.6	1061.1	1125.1	1165.3
36°	939.6	962.3	964.0	1029.9	1100.1	1145.2
36.5°	905.7	930.4	926.0	996.0	1072.0	1122.2
37°	871.8	897.0	888.7	961.1	1040.5	1095.5
37.5°	837.4	860.1	852.9	923.3	1005.9	1064.0
38°	802.0	821.9	818.0	884.4	970.1	1030.1
38.5°	763.8	783.1	781.0	845.9	933.3	994.8
39°	726.0	746.1	744.4	807.1	896.2	959.4
39.5°	687.2	711.0	707.3	768.8	857.5	924.6
40°	650.0	676.6	671.3	728.9	819.7	889.7
40.5°	611.9	642.7	635.2	689.9	781.7	853.1
41°	575.1	607.3	601.0	651.6	744.6	816.8
41.5°	539.3	571.7	567.1	616.8	708.8	780.2
42°	503.4	536.4	533.0	581.2	672.5	743.7
42.5°	467.8	502.7	500.3	547.5	634.5	707.3
43°	433.7	470.8	468.8	515.1	598.9	672.2
43.5°	402.5	438.5	437.8	484.1	564.2	637.4



TEST NUMBER: P776195

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	321.3	347.3	355.5	399.8	466.4	533.0
45.5°	298.6	319.9	331.3	374.9	436.9	499.6
46°	277.8	295.4	308.8	351.4	408.5	466.6
46.5°	259.6	274.6	287.9	329.3	382.6	434.9
47°	243.6	256.7	268.8	308.5	357.2	403.9
47.5°	228.8	240.9	251.6	288.7	333.9	372.9
48°	217.5	227.4	236.1	270.2	311.9	345.6
48.5°	206.3	215.3	222.3	253.5	292.0	319.4
49°	194.9	204.1	209.2	237.8	273.2	295.7
49.5°	183.6	193.0	197.4	223.3	255.5	274.1
50°	172.4	182.6	186.2	209.2	239.5	256.7
50.5°	164.9	173.4	176.3	196.6	224.7	240.9
51°	157.6	165.6	167.8	185.0	211.2	226.7
51.5°	150.6	158.6	160.6	174.6	198.3	213.6
52°	143.6	151.6	153.5	166.4	186.7	202.2
52.5°	136.8	144.6	146.5	159.3	176.5	191.3
53°	130.3	137.5	139.5	152.1	168.1	180.9
53.5°	124.0	131.2	132.7	144.8	160.8	171.4
54°	118.4	125.0	126.4	137.8	153.3	164.2
54.5°	113.1	119.1	120.8	131.2	146.0	156.9
55°	108.0	113.8	115.3	125.0	139.0	149.4
55.5°	103.4	108.7	110.2	119.4	132.5	142.4
56°	98.8	103.9	105.1	113.8	126.2	135.6
56.5°	94.7	99.5	100.7	108.7	120.4	129.1
57°	90.8	95.2	96.4	104.1	114.8	122.8
57.5°	87.2	91.3	92.3	99.5	109.7	117.2
58°	83.3	87.4	88.6	95.4	104.9	111.6
58.5°	80.2	84.0	85.5	91.3	100.3	106.8
59°	76.8	80.9	82.1	87.4	95.9	101.9
59.5°	73.9	77.7	78.9	84.3	92.0	97.8
60°	71.0	74.6	75.8	81.1	88.1	93.5
60.5°	68.0	71.7	72.4	78.0	85.0	89.4
61°	65.4	68.8	69.5	74.8	81.8	86.0
61.5°	63.0	66.1	66.8	71.7	78.5	82.6
62°	60.5	63.7	64.4	69.0	75.3	79.2
62.5°	58.1	61.0	61.8	66.4	72.2	75.8
63°	55.7	58.6	59.3	63.7	69.3	72.4
63.5°	53.5	56.4	57.1	61.0	66.6	69.5
64°	51.6	54.2	54.7	58.8	63.7	66.6
64.5°	49.4	52.1	52.8	56.4	61.3	63.9
65°	47.5	50.1	50.6	54.2	58.8	61.3
65.5°	45.5	47.9	48.7	52.1	56.4	58.6
66°	43.8	46.0	46.5	50.1	54.2	56.4



TEST NUMBER: P776195

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	38.5	40.7	41.2	44.3	47.7	49.6
68°	37.1	39.0	39.5	42.4	45.8	47.5
68.5°	35.4	37.3	37.8	40.7	43.8	45.5
69°	33.9	35.8	36.3	39.0	41.9	43.6
69.5°	32.4	34.1	34.6	37.3	40.2	41.9
70°	31.0	32.7	33.2	35.8	38.5	40.0
70.5°	29.5	31.2	31.7	34.1	36.8	38.3
71°	28.1	29.8	30.3	32.7	35.1	36.6
71.5°	26.9	28.6	28.8	31.2	33.7	34.9
72°	25.7	27.1	27.4	29.8	32.0	33.4
72.5°	24.2	25.9	26.2	28.3	30.5	32.0
73°	23.0	24.5	24.9	27.1	29.1	30.5
73.5°	22.0	23.2	23.5	25.7	27.6	29.1
74°	20.6	22.0	22.3	24.5	26.4	27.6
74.5°	19.6	20.8	21.1	23.0	24.9	26.2
75°	18.4	19.6	20.1	21.8	23.7	24.9
75.5°	17.4	18.6	18.9	20.6	22.3	23.5
76°	16.2	17.4	17.7	19.6	21.3	22.3
76.5°	15.3	16.5	16.7	18.4	20.1	21.1
77°	14.3	15.3	15.5	17.2	18.9	19.9
77.5°	13.1	14.3	14.5	16.2	17.7	18.6
78°	12.4	13.3	13.6	15.0	16.5	17.7
78.5°	11.4	12.4	12.6	14.0	15.5	16.5
79°	10.4	11.4	11.6	13.1	14.3	15.5
79.5°	9.7	10.7	10.7	12.1	13.3	14.3
80°	8.7	9.7	9.9	11.1	12.4	13.3
80.5°	8.0	9.0	9.0	10.2	11.4	12.4
81°	7.0	8.0	8.2	9.4	10.4	11.4
81.5°	6.3	7.3	7.5	8.5	9.4	10.4
82°	5.6	6.5	6.8	7.7	8.7	9.7
82.5°	4.8	5.8	6.1	7.0	7.7	8.7
83°	4.1	5.1	5.1	6.1	7.0	8.0
83.5°	3.6	4.4	4.4	5.3	6.1	7.0
84°	2.9	3.6	3.9	4.6	5.3	6.3
84.5°	2.2	2.9	3.1	4.1	4.6	5.6
85°	1.7	2.4	2.4	3.4	3.9	4.8
85.5°	1.0	1.7	1.9	2.7	3.1	4.1
86°	0.5	1.2	1.2	2.2	2.7	3.4
86.5°	0.0	0.5	0.5	1.5	2.2	2.7
87°	0.0	0.0	0.0	1.0	1.7	2.2
87.5°	0.0	0.0	0.0	0.5	1.2	1.7
88°	0.0	0.0	0.0	0.0	0.7	1.2
88.5°	0.0	0.0	0.0	0.0	0.5	0.7



TEST NUMBER: P776195  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1477.4	1496.8	1516.4	1532.6	1534.3	1537.5	1526.6	1505.7	1485.9	1464.6	1444.2
22°	1470.4	1490.7	1510.6	1527.3	1528.7	1532.1	1520.5	1498.7	1478.9	1456.6	1436.2



44°	602.5	676.8	744.4	793.8	775.6	779.5	714.1	616.0	546.1	471.2	409.2
44.5°	567.1	640.3	705.6	755.0	736.9	742.9	674.2	579.0	511.4	439.3	380.9



66.5°	54.0	57.9	61.3	63.0	60.1	59.1	55.0	49.9	46.5	44.6	43.3
67°	51.8	55.5	58.6	60.5	57.6	56.9	52.8	47.9	44.6	42.6	41.4



89°	0.2	1.2	2.2	3.1	2.4	2.4	1.2	0.2	0.0	0.0	0.0
89.5°	0.0	0.7	1.7	2.4	1.9	1.7	0.7	0.0	0.0	0.0	0.0



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21.5°	1427.5	1428.2	1427.0	1441.6	1461.4	1477.4
22°	1418.8	1420.0	1418.6	1433.8	1453.7	1470.4



44°	373.9	407.3	408.8	454.0	529.8	602.5
44.5°	346.5	376.3	380.7	426.7	497.4	567.1



66.5°	41.9	44.3	44.8	47.9	51.8	54.0
67°	40.2	42.4	42.9	46.3	49.9	51.8

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89°	0.0	0.0	0.0	0.0	0.0	0.2
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Peachtree City, GA 30269

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(END OF REPORT)